

Human AZU1 ELISA Kit | AZU1 elisa kit

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CATALOG #
AAA258375

REACTIVITY
Human

PRODUCT SYNONYMS

AZU1; Human AZU1 ELISA Kit; Azurocidin/CAP37 ELISA Kit; Human; azurocidin 1; AZAMP ELISA Kit; AZU ELISA Kit; AZU1 ELISA Kit; CAP37 ELISA Kit; HBP ELISA Kit; hHBP ELISA Kit; HUMAZUR ELISA Kit; NAZC ELISA Kit; AZU1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human AZU1 concentration in serum, cell culture supernates and plasma.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant, Plasma
Detection Range	12.5-800pg/mL
Sensitivity	8.76pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

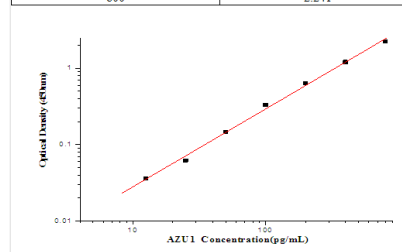
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF

Application Data

This assay recognizes both recombinant and natural Human AZU1. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
12.5	0.036
25	0.062
50	0.146
100	0.330
200	0.635
400	1.211
800	2.241



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for AZU1 elisa kit	This Azurocidin/CAP37 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human Azurocidin/CAP37 protein in Serum, Cell supernatant, Plasma. It contains recombinant Human Azurocidin/CAP37, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Azurocidin (AZU1), also known as heparin-binding protein (HBP) or cationic antimicrobial protein 37 (CAP37), is an azurophil granule antibiotic protein, with monocyte chemotactic and antibacterial activity. The Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. Azurocidin is a member of the serine protease family that includes Cathepsin G, neutrophil elastase (NE), and proteinase 3 (PR3), however, Azurocidin is not a serine proteinase since the active site serine and histidine residues are replaced. Neutrophils arriving first at sites of inflammation release Azurocidin, which acts in a paracrine fashion on endothelial cells causing the development of intercellular gaps and allowing leukocyte extravasation. It thus be regarded as a reasonable therapeutic target for a variety of inflammatory disease conditions.
References	Lindmark A, et al. (1999) Characterization of the biosynthesis, processing, and sorting of human HBP/CAP37/azurocidin. J Leukoc Biol. 66(4): 634-43. Heinzelmann M, et al. (2001) Heparin binding protein (CAP37) differentially modulates endotoxin-induced cytokine production. Int J Surg Investig. 2(6): 457-66. Soehnlein O, et al. (2005) Neutrophil-derived heparin-binding protein (HBP/CAP37) deposited on endothelium enhances monocyte arrest under flow conditions. J Immunol. 174(10): 6399-405.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/azu1/258375>